KLH1 GI: 47169655

3,125 AA, 358,911 Da, Lysine number: 156

KLH1 didecamer , 8,613,864 Da, Lysine number: 3744

carbohydrate content for klh1:

mannose (aldose)

galactose (aldose)

n-acetylglucosamine (ketose)

n-acetylgalactosamine (ketose)

KLH1 SEQUENCE:

1 MTPEELKTYL DERSSRARAF ASFRLKGFGG SANVFVYVCI PDDNDRNDDH CEKAGDFFVL
61 GGPSEMKWQF YRPYLFDLSD TVHKMGMKLD GHYTVKAELF SVNGTALPDD LLPHPVVVHH
121 PEKGFTDPPV KHHQSANLLV RKNINDLTRE EVLNLREAFH KFQEDRSVDG YQATAEVHGL
181 PARCPRPDAK DRYACCVHGM PIFPHWHRLF VTQVEDALVG RGATIGIPYW GLPYWDWTEP
241 MTHIPGLAGN KTYVDSHGAS HTNPFHSSVI AFEENAPHTK RQIDQRLFKP ATFGHHTDLF
301 NQILVAFEQE DYCDFEVQFE ITHNTIHAWT GGSEHFSMSS LHYTAFDPLF YFHHSNVDRL
361 WAVWQALQMR RHKPYRAHCA ISLEHMHLKP FAFSSPLNNN EKTHANAMPN KIYDYENVLH
421 YTYEDLTFGG ISLENIEKMI HENQQEDRIY AGFLLAGIRT SANVDIFIKT TDSVQHKAGT
481 FAVLGGSKEM KWGFDRVFKF DITHVLKDLD LTADGDFEVT VDITEVDGTK LASSLIPHAS
541 VIREHARGKL NRVKFDKVPR SRLIRKNVDR LSPEEMNELR KALALLKEDK SAGGFQQLGA
601 FHGEPKWCPS PEASKKFACC VHGMSVFPHW HRLLTVQSEN ALRRHGYDGA LPYWDWTSPL
661 NHLPELADHE KYVDPEDGVE KHNPWFDGHI DTVDKTTTRS VQNKLFEQPE FGHYTSIAKQ
721 VLLALEQDNF CDFEIQYEIA HNYIHALVGG AQPYGMASLR YTAFDPLFYL HHSNTDRIWA
781 IWQALQKYRG KPYNVANCAV TSMREPLQPF GLSANINTDH VTKEHSVPFN VFDYKTNFNY
841 EYDTLEFNGL SISQLNKKLE AIKSQDRFFA GFLLSGFKKS SLVKFNICTD SSNCHPAGEF
901 YLLGDENEMP WAYDRVFKYD ITEKLHDLKL HAEDHFYIDY EVFDLKPASL GKDLFKQPSV
961 IHEPRIGHHE GEVYQAEVTS ANRIRKNIEN LSLGELESLR AAFLEIENDG TYESIAKFHG
1021 SPGLCQLNGN PISCCVHGMP TFPHWHRLYV VVVENALLKK GSSVAVPYWD WTKRIEHLPH
1081 LISDATYYNS RQHHYETNPF HHGKITHENE ITTRDPKDSL FHSDYFYEQV LYALEQDNFC
1141 DFEIQLEILH NALHSLLGGK GKYSMSNLDY AAFDPVFFLH HATTDRIWAI WQDLQRFRKR
1201 PYREANCAIQ LMHTPLQPFD KSDNNDEATK THATPHDGFE YQNSFGYAYD NLELNHYSIP
1261 QLDHMLQERK RHDRVFAGFL LHNIGTSADG HVFVCLPTGE HTKDCSHEAG MFSILGGQTE
1321 MSFVFDRLYK LDITKALKKN GVHLQGDFDL EIEITAVNGS HLDSHVIHSP TILFEAGTDS
1381 AHTDDGHTEP VMIRKDITQL DKRQQLSLVK ALESMKADHS SDGFQAIASF HALPPLCPSP
1441 AASKRFACCV HGMATFPQWH RLYTVQFQDS LRKHGAVVGL PYWDWTLPRS ELPELLTVST

1501 IHDPETGRDI PNPFIGSKIE FEGENVHTKR DINRDRLFQG STKTHHNWFI EQALLALEQT
1561 NYCDFEVQFE IMHNGVHTWV GGKEPYGIGH LHYASYDPLF YIHHSQTDRI WAIWQSLQRF
1621 RGLSGSEANC AVNLMKTPLK PFSFGAPYNL NDHTHDFSKP EDTFDYQKFG YIYDTLEFAG
1681 WSIRGIDHIV RNRQEHSRVF AGFLLEGFGT SATVDFQVCR TAGDCEDAGY FTVLGGEKEM
1741 PWAFDRLYKY DITETLDKMN LRHDEIFQIE VTITSYDGTV LDSGLIPTPS IIYDPAHHDI
1801 SSHHLSLNKV RHDLSTLSER DIGSLKYALS SLQADTSADG FAAIASFHGL PAKCNDSHNN
1861 EVACCIHGMP TFPHWHRLYT LQFEQALRRH GSSVAVPYWD WTKPIHNIPH LFTDKEYYDV
1921 WRNKVMPNPF ARGYVPSHDT YTVRDVQEGL FHLTSTGEHS ALLNQALLAL EQHDYCDFAV
1981 QFEVMHNTIH YLVGGPQVYS LSSLHYASYD PIFFIHHSFV DKVWAVWQAL QEKRGLPSDR
2041 ADCAVSLMTQ NMRPFHYEIN HNQFTKKHAV PNDVFKYELL GYRYDNLEIG GMNLHEIEKE
2101 IKDKQHHVRV FAGFLLHGIR TSADVQFQIC KTSEDCHHGG QIFVLGGTKE MAWAYNRLFK
2161 YDITHALHDA HITPEDVFHP SEPFFIKVSV TAVNGTVLPA SILHAPTIIY EPGLGDHNED
2221 HHSSSMAGHG VRKEINTLTT AEVDNLKDAM RAVMADHGPN GYQAIAAFHG NPPMCPMPDG
2281 KNYSCCTHGM ATFPHWHRLY TKQMEDALTA HGARVGLPYW DGTTAFTALP TFVTDEEDNP
2341 FHHGHIDYLG VDTTRSPRDK LFNDPERGSE SFFYRQVLLA LEQTDFCQFE VQFEITHNAI
2401 HSWTGGLTPY GMSTLEYTTY DPLFWLHHAN TDRIWAIWQA LQEYRGLPYD HANCEIQAMK
2461 RPLRPFSDPI NHNAFTHSNA KPTDVFEYSR FNFQYDNLRF HGMTIKKLEH ELEKQKEEDR
2521 TFAAFLLHGI KKSADVSFDV CNHDGECHFA GTFAILGGEH EMPWSFDRLF RYDITQVLKQ
2581 MHLEYDSDFT FHMRIIDTSG KQLPSDLIKM PTVEHSPGGK HHEKHHEDHH EDILVRKNIH
2641 SLSHHEAEEL RDALYKLQND ESHGGYEHIA GFHGYPNLCP EKGDEKYPCC VHGMSIFPHW
2701 HRLHTIQFER ALKKHGSHLG IPYWDWTQTI SSLPTFFADS GNNNPFFKYH IRSINQDTVR
2761 DVNEAIFQQT KFGEFSSIFY LALQALEEDN YCDFEVQYEI LHNEVHALIG GAEKYSMSTL
2821 EYSAFDPYFM IHHASLQKIW IIWQELQKRR VKPAHAGSCA GDIMHVPLHP FNYESVNNDD
2881 FTRENSLPNA VVDSHRFNYK YDNLNLHGHN IEELEEVLRS LRLKSRVFAG FVLSGIRTTA
2941 VVKVYIKSGT DSDDEYAGSF VILGGAKEMP WAYERLYRFD ITETVHNLNL TDDHVKFRFD
3001 LKKYDHTELD ASVLPAPIIV RRPNNAVFDI IEIPIGKDVN LPPKVVVKRG TKIMFMSVDE
3061 AVTTPMLNLG SYTAMFKCKV PPFSFHAFEL GKMYSVESGD YFMTASTTEL CNDNNLRIHV
3121 HVDDE

KLH2 GI: 47169657

3,421 AA, 391.539 KDA, Lysine number: 150

KLH2 didecamer, 9,396,936 Da, Lysine number: 3600

Carbohydrate content for klh2:

mannose (aldose)

galactose (aldose)

n-acetylglucosamine (ketose)

n-acetylgalactosamine (ketose)

fucose (aldose, deoxy hexose)

KLH2 SEQUENCE:

1 MWTILALLTA TLLFEGAFSV DTVVRKNVDS LSSDEVLALE KALDDLQQDD SNQGYQAIAG
61 YHGVPTMCVD KHEKNVACCL HGMPSFPLWH RLYVVQLERA LIRKKATISI PYWDWTSELT
121 HLPELVSHPL FVGTEGGKAH DNSWYRADIT FLNKKTSRAV DDRLFEKVQP GHHTRLMEGI
181 LDALEQDEFC KFEIQFELAH NAIHYLVGGR HTYSMSHLEY TSYDPLFFLH HSNTDRIFAI
241 WQRLQQLRGK DPNSADCAHN LIHTPMEPFD RDTNPLDLTR EHAKPADSFD YGRLGYQYDD
301 LSLNGMSPEE LNVYLGERAA KERTFASFIL SGFGGSANVV VYVCRPAHDE ISDDQCIKAG
361 DFFLLGGPTE MKWGFYRAYH FDVTDSVASI DDDGHGHYYV KSELFSVNGS ALSNDILRQP
421 TLVHRPAKGH FDKPPVPVAQ ANLAVRKNIN DLTAEETYSL RKAMERFQND KSVDGYQATV
481 EFHALPARCP RPDAKDRFAC CVHGMATFPH WHRLFVTQVE DALLRRGSTI GLPNWDWTMP
541 MDHLPELATS ETYLDPVTGE TKNNPFHHAQ VAFENGVTSR NPDAKLFMKP TYGDHTYLFD
601 SMIYAFEQED FCDFEVQYEL THNAIHAWVG GSEKYSMSSL HYTAFDPIFY LHHSNVDRLW
661 AIWQALQIRR GKSYKAHCAS SQEREPLKPF AFSSPLNNNE KTYHNSVPTN VYDYVGVLHY
721 RYDDLQFGGM TMSELEEYIH KQTQHORTFA GFFLSYIGTS ASVDIFINRE GHDKYKVGSF
781 VVLGGSKEMK WGFDRMYKYE ITEALKTLNV AVDDGFSITV EITDVDGSPP SADLIPPPAI
841 IFERADAKDF GHSRKIRKAV DSLTVEEQTS LRRAMADLQD DKTSGGFQQI AAFHGEPKWC
901 PSPEAEKKFA CCVHGMAVFP HWHRLLTVQG ENALRKHGFT GGLPYWDWTR SMSALPHFVA
961 DPTYNDAISS QEEDNPWHHG HIDSVGHDTT RDVRDDLYQS PGFGHYTDIA KQVLLAFEQD
1021 DFCDFEVQFE IAHNFIHALV GGNEPYSMSS LRYTTYDPIF FLHRSNTDRL WAIWQALQKY
1081 RGKPYNTANC AIASMRKPLQ PFGLDSVINP DDETREHSVP FRVFDYKNNF DYEYESLAFN
1141 GLSIAQLDRE LQRRKSHDRV FAGFLLHEIG QSALVKFYVC KHNVSDCDHY AGEFYILGDE
1201 AEMPWRYDRV YKYEITQQLH DLDLHVGDNF FLKYEAFDLN GGSLGGSIFS QPSVIFEPAA
1261 GSHQADEYRE AVTSASHIRK NIRDLSEGEI ESIRSAFLQI QKEGIYENIA KFHGKPGLCE
1321 HDGHPVACCV HGMPTFPHWH RLYVLQVENA LLERGSAVAV PYWDWTEKAD SLPSLINDAT
1381 YFNSRSQTFD PNPFFRGHIA FENAVTSRDP QPELWDNKDF YENVMLALEQ DNFCDFEIQL
1441 ELIHNALHSR LGGRAKYSLS SLDYTAFDPV FFLHHANVDR IWAIWQDLQR YRKKPYNEAD

1501 CAVNEMRKPL QPFNNPELNS DSMTLKHNLP QDSFDYQNRF RYQYDNLQFN HFSIQKLDQT
1561 IQARKQHDRV FAGFILHNIG TSAVVDIYIC VEQGGEQNCK TKAGSFTILG GETEMPFHFD
1621 RLYKFDITSA LHKLGVPLDG HGFDIKVDVR AVNGSHLDQH ILNEPSLLFV PGERKNIYYD
1681 GLSQHNLVRK EVSSLTTLEK HFLRKALKNM QADDSPDGYQ AIASFHALPP LCPSPSAAHR
1741 HACCLHGMAT FPQWHRLYTV QFEDSLKRHG SIVGLPYWDW LKPQSALPDL VTQETYEHLF
1801 SHKTFPNPFL KANIEFEGEG VTTERDVDAE HLFAKGNLVY NNWFCNQALY ALEQENYCDF
1861 EIQFEILHNG IHSWVGGSKT HSIGHLHYAS YDPLFYIHHS QTDRIWAIWQ ALQEHRGLSG
1921 KEAHCALEQM KDPLKPFSFG SPYNLNKRTQ EFSKPEDTFD YHRFGYEYDS LEFVGMSVSS
1981 LHNYIKQQQE ADRVFAGFLL KGFGQSASVS FDICRPDQSC QEAGYFSVLG GSSEMPWQFD
2041 RLYKYDITKT LKDMKLRYDD TFTIKVHIKD IAGAELDSDL IPTPSVLLEE GKHGINVRHV
2101 GRNRIRMELS ELTERDLASL KSAMRSLQAD DGVNGYQAIA SFHGLPASCH DDEGHEIACC
2161 IHGMPVFPHW HRLYTLQMDM ALLSHGSAVA IPYWDWTKPI SKLPDLFTSP EYYDPWRDAV
2221 VNNPFAKGYI KSEDAYTVRD PQDILYHLQD ETGTSVLLDQ TLLALEQTDF CDFEVQFEVV
2281 HNAIHYLVGG RQVYALSSQH YASYDPAFFI HHSFVDKIWA VWQALQKKRK RPYHKADCAL
2341 NMMMTKPMRPF AHDFNHNGFT KMHAVPNTLF DFQDLFYTYD NLEIAGMNVN QLEAEINRRK
2401 SQTRVFAGFL LHGIGRSADV RFWICKTADD CHASGMIFIL GGSKEMHWAY DRNFKYDITQ
2461 ALKAQSIHPE DVFDTDAPFF IKVEVHGVNK TALPSSAIPA PTIIYSAGEG HTDDHGSDHI
2521 AGSGVRKDVT SLTASEIENL RHALQSVMDD DGPNGFQAIA AYHGSPPMCH MHDGRDVACC
2581 THGMASFPHW HRLFVKQMED ALAAHGAHIG IPYWDWTSAF SHLPALVTDH EHNPFHHGHI
2641 AHRNVDTSRS PRDMLFNDPE HGSESFFYRQ VLLALEQTDF CQFEVQFEIT HNAIHSWTGG
2701 HTPYGMSSLE YTAYDPLFYL HHSNTDRIWA IWQALQKYRG FQYNAAHCDI QVLKQPLKPF
2761 SESRNPNPVT RANSRAVDSF DYERLNYQYD TLTFHGHSIS ELDAMLQERK KEERTFAAFL
2821 LHGFGASADV SFDVCTPDGH CAFAGTFAVL GGELEMPWSF ERLFRYDITK VLKQMNLHYD
2881 SEFHFELKIV GTDGTELPSD RIKSPTIEHH GGDHHGGDTS GHDHSERHDG FFRKEVGSLS
2941 LDEANDLKNA LYKLQNDQGP NGYESIAGYH GYPFLCPEHG EDQYACCVHG MPVFPHWHRL
3001 HTIQFERALK EHGSHLGIPY WDWTKSMIAL PAFFADSSNS NPFYKYHIMK AGHDTARSPS
3061 DLLFNQPQLH GYDYLYYLAL STLEEDNYCD FEVHYEILHN AVHLWLGGTE TYSMSSLAFS
3121 AYDPVFMILH SGLDRLWIIW QELQKLRKKP YNAAKCAGHM MDEPLHPFNY ESANHDSFTR
3181 ANAKPSTVFD SHKFNYHYDN PDVRGNSIQE ISAIIHDLRN QPRVFAGFVL SGIYTSANVK
3241 IYLVREGHDD ENVGSFVVLG GPKEMPWAYE RIFKYDITEV ANRLNMHHDD TFNFRLEVQS
3301 YTGEMVTHHL PEPLIIYRPA KQEYDVLVIP LGSGHKLPPK VIVKRGTRIM FHPVDDTVNR
3361 PVVDLGSHTA LYNCVVPPFT YNGYELDHAY SLRDGHYYIA GPTKDLCTSG NVRIHIHIED
3421 E