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(71) Applicant: ELOXX PHARMACEUTICALS LTD.

[IL/IL]; 10 Prof. Menachem Plaut Street, 7670621 Rehovot (IL).

(72) Inventors: BAASOV, Timor; 22 Gilboa Street, 3271630

Haifa (IL). FIRZON, Vera; 11B Avraham Liessin Street, 3522219 Haifa (IL). BELAKHOV, Valery; 5/2 Yaakov Hazan Street, 3288105 Haifa (IL). EYLON, Bat-Hen; 13 Avraham Stern (Yair) Street, 4440727 Kfar-Saba (IL).

(74) Agent: EHRLICH, Gal et al.; G. E. Ehrlich (1995) LTD.,

11 Menachem Begin Road, 5268104 Ramat Gan (IL).

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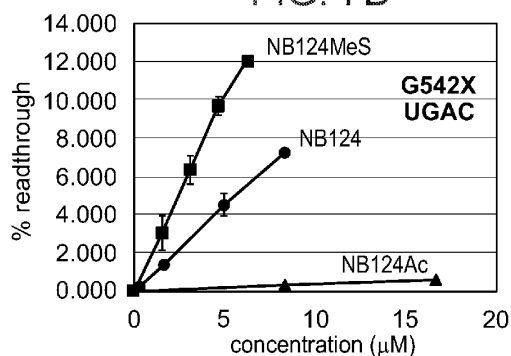
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(54) Title: AMINOGLYCOSIDE DERIVATIVES AND USES THEREOF IN TREATING GENETIC DISORDERS

FIG. 7D



(57) **Abstract:** Novel aminoglycosides, represented by Formulae (e.g., a compound of Formula A, B, I, I*, III or III*, including compounds represented by Formula Ia, I**, I*a, I*b, IIIa, III**, III*a and, III*b), as defined in the instant specification, designed to exhibit stop codon mutation readthrough activity, are provided. Also provided are pharmaceutical compositions containing the same, and uses thereof in the treatment of genetic diseases and disorders, such as diseases and disorders associated with stop codon mutations.