

CRYSTAL OF PYRIMIDINE COMPOUND

ABSTRACT

A crystal of 7-((3R,5S)-1-acryloyl-5-methylpyrrolidin-3-yl)-4-amino-6-(cyclopropylethynyl)-N-((R)-1-phenylethyl)-7H-pyrrolo[2,3-d]pyrimidine-5-carboxamide (compound (I)), and a crystal thereof with an acid (salt crystal or co-crystal) are provided.

There are provided: a type II crystal of compound (I) with fumaric acid, having characteristic peaks at three or more diffraction angles ($2\theta \pm 0.2^\circ$) selected from 5.5° , 6.8° , 9.3° , 13.4° , 15.3° , 16.3° , 18.5° , 19.8° , 22.0° , and 24.5° in a powder X-ray diffraction spectrum;

a (free-form) type II crystal of compound (I) having characteristic peaks at three or more diffraction angles selected from 8.3° , 14.8° , 17.3° , 18.0° , 19.1° , 20.3° , 21.0° , 22.5° , 23.0° , and 26.2° in a powder X-ray diffraction spectrum;

a (free-form) type I crystal of compound (I) having characteristic peaks at three or more diffraction angles selected from 9.9° , 11.7° , 13.2° , 17.7° , 18.1° , 18.8° , and 20.8° in a powder X-ray diffraction spectrum;

a type V crystal of compound (I) with fumaric acid, having characteristic peaks at four or more diffraction angles selected from 6.9° , 9.4° , 10.2° , 13.7° , 21.1° , 23.6° , and 26.5° in a powder X-ray diffraction spectrum; and

a type I crystal of compound (I) with fumaric acid, having characteristic peaks at four or more diffraction angles selected from 6.4° , 10.3° , 12.8° , 15.0° , 20.7° , 23.4° , and 26.6° in a powder X-ray diffraction spectrum.

No suitable figure