product name: BIA10-2474

catalog number: T3354

cas number: 1233855-46-3

molecular formula: C16H20N4O2

molecular weight: 300.36

description: BIA10-2474 is a long-acting reversible inhibitor of fatty acid amide hydrolase (FAAH) that increases levels of the neurotransmitter anandamide in the central nervous system and in peripheral tissues (that is, the rest of the body other than the brain and spinal cord). BIA 10-2474 interacts with the human endocannabinoid system. BIA 10-2474 was in development for the treatment of a range of different medical conditions from anxiety to Parkinson's disease, also for the treatment of chronic pain of multiple sclerosis, Y, hypertension or the treatment of obesity.

storage: 2 years -80°C in solvent; 3 years -20°C powder;

solubility: DMSO 4 mg/mL (13.3 mM)
(< 1 mg/ml refers to the product slightly soluble or insoluble)

receptor (IC50)

faah 50-70mg/kg(rat brain regions)

in vitro activity

ex vivo: BIA 10-2474 proves to be a potent FAAH inhibitor with IC50s of 50-70mg/kg (i.p.) in various brain regions. IC50 values for brain regions are 52 (cerebellum), 67 (rest of brain), 68 (cortex), and 71 mg/kg (hypothalamus) [1].

in vivo activity

in January 2016, severe adverse events (SAE) occurs in the Phase I clinical trial using the drug BIA 10-2474 including one death. The possibilities for failure of trials such as off-target effect, dose calculation, unexpected immune response, species variation, and cumulative dose toxicity would be sought [2].

animal experiment

animal model: rats

reference


for research purposes only. not for diagnostic or therapeutic use.

information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. upon receipt of the product, please follow the storage recommendations on the product data sheet.