

Product Data Sheet

Product Name: Emapunil

Cat. No.: GC35976

Chemical Properties

Cas. No. 226954-04-7

SMILES O=C(N(CC)CC1=CC=CC=C1)CN2C(N(C)C3=CN=C(C4=CC=CC=C4)N=C23)=O

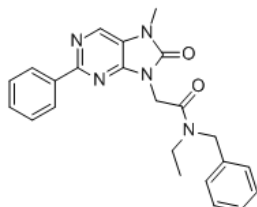
Formula $C_{23}H_{23}N_5O_2$ M.Wt 401.46

Solubility DMSO: 33.33 mg/mL (83.02 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Emapunil (AC-5216; XBD-173) is a translocator protein [TSPO (18 kDa)] ligand. IC₅₀ value: Target: TSPO ligand XBD173 enhanced gamma-aminobutyric acid-mediated neurotransmission and counteracted induced panic attacks in rodents in the absence of sedation and tolerance development. XBD173 also exerted antipanic activity in humans and, in contrast to benzodiazepines, did not cause sedation or withdrawal symptoms [1]. The selective TSPO ligand, XBD173 (AC-5216, Emapunil), exerts anxiolytic effects not only in animal models, but also in human volunteers [2].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Costa B, et al. Translocator protein as a promising target for novel anxiolytics. Curr Top Med Chem. 2012;12(4):270-85. [2]. Rupprecht R, et al. Translocator protein (18 kD) as target for anxiolytics without benzodiazepine-like side effects. Science. 2009 Jul 24;325(5939):490-3. [3]. Qiu ZK, et al. The antidepressant-like activity of AC-5216, a ligand for 18KDa translocator protein (TSPO), in an animal model of diabetes mellitus. Sci Rep. 2016 Nov 25;6:37345.

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