
Product Data Sheet

Product Name: WAY 207024 dihydrochloride

Cat. No.: GC16492

Chemical Properties

Cas. No. 872002-73-8

Chemical Name 6-((4-(2-(4-(tert-butyl)phenyl)-1H-benzo[d]imidazol-4-yl)piperazin-1-yl)methyl)quinoxaline dihydrochloride

SMILES CC(C)(C1=CC=C(C2=NC3=C(N2)C=CC=C3N4CCN(CC5=CC6=C(N=CC=N6)C=C5)CC4)C=C1)C.Cl.Cl

Formula $C_{30}H_{32}N_6 \cdot 2HCl$ M.Wt 549.54

Solubility <46.71mg/ml in DMSO Storage Desiccate at RT

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

Structure

Background

WAY 207024 dihydrochloride is a potent gonadotropin releasing hormone receptor (GnRH-R) antagonist with IC50 values of 12 and 71 nM for human and rat GnRH receptors, respectively [1].

GnRH-R is a member of the G-protein coupled receptor (GPCR) family. Activation of the receptor by binding of gonadotropin-releasing hormone causes the release of leuteinizing hormone (LH) and follicle stimulating hormone (FSH) from the anterior pituitary gland and they in turn stimulate sex hormone synthesis and release into the general circulation [1].

WAY 207024 dihydrochloride displayed moderate membrane permeability properties and rat liver microsome stability [1].

In castrated rats, WAY 207024 dihydrochloride was absorbed well following oral administration with a bioavailability of 74%. Also, WAY 207024 dihydrochloride (30 mg/kg, oral gavage) reduced serum LH levels starting at 1 h post dosing and LH levels had returned to the vehicle treated group levels after 24h [1].

References:

[1]. Pelletier JC, Chengalvala MV, Cottom JE, et al. Discovery of 6-({4-[2-(4-tert-butylphenyl)-1H-benzimidazol-4-yl]piperazin-1-yl}methyl)quinoxaline (WAY-207024): an orally active antagonist of the gonadotropin releasing hormone receptor (GnRH-R). *J Med Chem*, 2009, 52(7): 2148-2152.

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

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