
Product Data Sheet

Product Name: TBK1/IKK ϵ -IN-1

Cat. No.: GC37747

Chemical Properties

Cas. No. 2058264-32-5

SMILES O=C(C1=CC(OC)=C(C2=CC3=NC=CC(C4=CC=C(OC5CCOCC5)C(C#N)=C4)=C3O2)N=C1)N(C)CFormula C₂₈H₂₆N₄O₅

M.Wt

498.53

Solubility Soluble in DMSO

Storage

Store at -20°C

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 ice Condition upon request.

Structure

Background

TBK1/IKK ϵ -IN-1 is a dual TBK1 and IKK ϵ inhibitor extracted from patent US20160376283 A1, Compound 274 in Example 60, has IC₅₀s of <100 nM. TBK1|100 nM (IC₅₀)|IKK ϵ |100 nM (IC₅₀)

IKK ϵ and TBK1 are serine/threonine kinases which are highly homologous to one another and other I κ B kinases (IKK- α and IKK- β). The two kinases play an integral role in the innate immune system. Double-stranded RNA viruses are recognised by the Toll-like receptors 3 and 4 and the RNA helicases RIG-I and MDA-5 and result in activation of the TRIF-TBK1/IKK ϵ -IRF3 signalling cascade, which results in a type I interferon response[1].

[1]. Brian A. Sherer, et al. Tbk/ikk inhibitor compounds and uses thereof. US 20160376283 A1.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA