
Product Data Sheet

Product Name: CAY10657

Cat. No.: GC18782

Chemical Properties

Cas. No. 494772-86-0

Chemical Name 3-[(aminocarbonyl)amino]-5-[4-(4-morpholinylmethyl)phenyl]-2-thiophenecarboxamide

SMILES O=C(N)C(S1)=C(NC(N)=O)C=C1C2=CC=C(C=C2)CN3CCOCC3Formula $C_{17}H_{20}N_4O_3S$ M.Wt 360.4

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:8): 0.1 mg/ml 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**

The NF- κ B/Rel family of transcription factors induce and coordinate the expression of pro-inflammatory genes including cytokines, chemokines, interferons, MHC proteins, growth factors, and cell adhesion molecules. Under resting conditions NF- κ B dimers are retained in the cytoplasm by a member of the IKB family of inhibitory proteins. Upon activation by cytokines or other stimuli, IKK phosphorylates IKB, initiating a signaling cascade to activate gene transcription. CAY10657 is a thiophenecarboximide derivative proposed to inhibit IKK2. Currently, there are no published reports of its biological activity. However, inhibition of NF- κ B activation is likely to be of broad utility in the treatment of inflammatory diseases and cancer.

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