

CLP-3094, GPR142 antagonist

Catalog	Unit
TBI3382-5MG	5 mg
TBI3382-25MG	25 mg

Product Details

Formal Name: 2-[[2-(4-Chlorophenoxy)ethyl]thio]-1H-benzimidazole

Molecular Formula: C₁₅H₁₃ClN₂OS

Formula Weight: 304.80

CAS Number: 312749-73-8

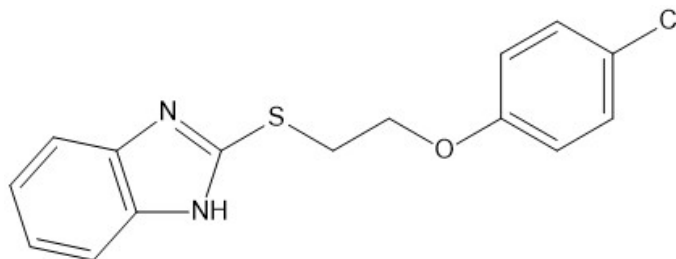
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 45 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

GPR142 antagonist

Functions

GPR142 is highly expressed in the pancreas and immune system and shares 33% homology with GPR139. Endogenous agonists identified to date include aromatic amino acids such as tryptophan and phenylalanine. CLP-3094 was identified as a potent and selective GPR142 antagonist with an IC₅₀=2.3 μM against 1 mM L-tryptophan. It inhibited insulin secretion from islets induced by L-tryptophan and other agonists and displayed anti-inflammatory activity in a mouse arthritis model.

Application Procedures

First dissolved in DMSO (up to 45 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.