

Catalog	Unit
TBI1620-5MG	5 mg
TBI1620-25MG	25 mg

Product Details

Formal Name: 6-Chloro-2-(trichloromethyl)-4H-1-benzopyran-4-one

Molecular Formula: C₁₀H₄Cl₄O₂

Formula Weight: 297.95

CAS Number: 133406-29-8

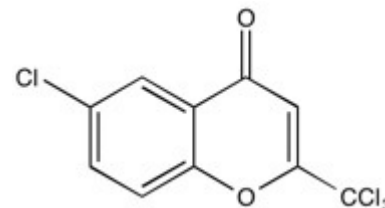
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 6 mg/ml)

Storage: RT

Stability: ≥ 1 year.



Applications

Adenylate cyclase 1 inhibitor; Analgesic activity

Functions

A novel selective adenylyl cyclase 1 (AC1) inhibitor, IC₅₀=2.3 μM. Inhibits calcium²⁺-stimulated cAMP accumulation in HEK cells stably transfected with AC1. It was also shown to inhibit AC1 stimulated by forskolin- and Gas-coupled receptors in HEK-AC1 cells. It enhanced μ-opioid receptor-mediated inhibition of AC1 but it blocked heterologous sensitization of AC1 caused by chronic μ-opioid receptor activation. Displays analgesic properties in a mouse model of inflammatory pain.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 6 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.