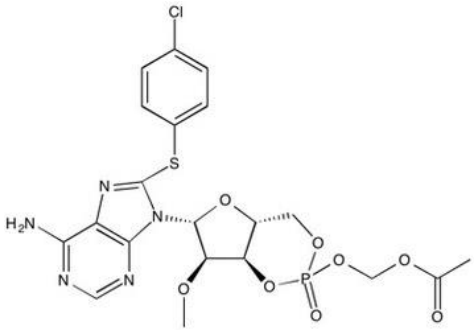
Tribioscience

8-pCPT-2-O-Me-cAMP-AM, Epac activator

Catalog	Unit
TBI2736-100UG	100 ug

Product Details

Formal Name: 8-(4-Chlorophenylthio)-2'-O-methyladenosine-3',5'-cyclic monophosphate, acetoxymethyl ester
Molecular Formula: $C_{20}H_{21}ClN_5O_8PS$
Formula Weight: 557.91
CAS Number: 1152197-23-3
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 50 mg/ml).
Storage: -20°C
Stability: ≥ 2 years.



Applications

Epac activator

Functions

A potent, cell-permeable Epac (exchange protein directly activated by cAMP) activator. Induces RAP1 activation and insulin secretion in pancreatic beta cell lines. Induces vascular relaxation in rat mesenteric artery. The acetoxymethyl ester confers increased cell-permeability and is cleaved by endogenous esterases to yield the active compound, 8-pCPT-2'-O-Me-cAMP. Addition to cell cultures should be done in serum-free media as esterases in serum will cleave the acetoxymethyl ester and reduce cell permeability.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.