PRODUCT INFORMATION

Sphingosine-1-Phosphate Lyase Fluorogenic Substrate
Item No. 13238

CAS Registry No.: 1166838-84-1
Formal Name: 2S-ammonio-3R-hydroxy-5-((2-oxo-2H-chromen-7-yl)oxy)pentyl hydrogen phosphate
Synonym: RBM13, S1P Lyase Fluorogenic Substrate
MF: C_{14}H_{18}NO_{8}P
FW: 359.3
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Sphingosine-1-phosphate (S1P) lyase fluorogenic substrate is supplied as a crystalline solid. A stock solution may be made by dissolving the S1P lyase fluorogenic substrate in the solvent of choice, which should be purged with an inert gas. S1P lyase fluorogenic substrate is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of S1P lyase fluorogenic substrate in these solvents is approximately 0.5 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of S1P lyase fluorogenic substrate can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of S1P lyase fluorogenic substrate in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

S1P lyase is a pyridoxal-dependent enzyme that cleaves S1P at the C2-C3 bond to yield ethanolamine phosphate and hexedecanal. S1P lyase fluorogenic substrate is a substrate of S1P lyase, leading to the production of the fluorescent product umbelliflorone (7-hydroxycoumarin) under appropriate conditions. This compound is intended to be used to monitor or measure S1P lyase activity.

Reference


WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman’s Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.