

Product Datasheet

E17241 (orb2695196)

Catalog Number	orb2695196
Category	Small Molecules
Description	E17241 functions as an inducer of ABCA1 gene expression, effectively increasing its expression with an EC₅₀ value of 280 nM. It also acts as an agonist for peroxisome proliferator-activated receptors (PPARs), inducing PPAR-mediated gene expression in HepG2 cells expressing PPARγ, PPARα, or PPARδ, with respective EC₅₀ values of 290, 3,900, and 879 nM. In RAW 264.7 macrophage cells, E17241 enhances ACBA1 protein levels, although this effect is absent when siRNA targeting PKCζ mRNA is present. Treatment with E17241 (0.4, 2, or 10 μM) increases cholesterol efflux in RAW 264.7 cells. In an atherosclerosis model using ApoE^{-/-} mice administered with a dose of 25 mg/kg, E17241 reduces levels of plasma cholesterol, alanine transaminase (ALT), aspartate transaminase (AST), and liver cholesterol and triglycerides, and also decreases the area of aortic lesions. Additionally, daily administration of E17241 (50 mg/kg) lowers blood glucose levels and body weight in KKAY diabetic mice on a high-fat, high-glucose (HFHG) diet.
MW	318.41
CAS Number	1060968-92-4
Formula	C ₁₅ H ₁₄ N ₂ O ₂ S ₂
SMILES	<chem>O=C(NC1=NC=CC=C1O)C2=CC=C(C=C2)C3SCCS3</chem>
Storage	-20°C
Note	For research use only

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