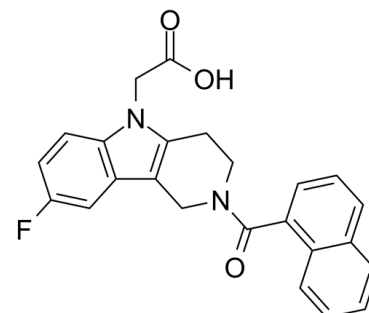


## Data Sheet

<b>Product Name:</b>	Setipiprant
<b>Cat. No.:</b>	CS-4940
<b>CAS No.:</b>	866460-33-5
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>19</sub> FN <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	402.42
<b>Target:</b>	Prostaglandin Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Solubility:</b>	DMSO : ≥ 36 mg/mL (89.46 mM)



### BIOLOGICAL ACTIVITY:

Setipiprant is an orally available, selective CRTH2 antagonist. CRTH2 is a G protein-coupled receptor for PGD<sub>2</sub>. IC<sub>50</sub> value: 6.0 nM  
 Target: PGD<sub>2</sub> in vitro: Setipiprant is an orally available, selective CRTH2 (chemoattractant receptor-homologous molecule expressed on T helper [Th]-2 cells) antagonist. CRTH2 is a G protein-coupled receptor for prostaglandin (PGD<sub>2</sub>). PGD<sub>2</sub> is produced by the mast cells and is a key mediator in various inflammatory diseases, including allergy and asthma. Binding of PGD<sub>2</sub> to CRTH2, which are expressed on the surface of blood-borne cells, induces chemotaxis of Th2 cells, basophils, and eosinophils, and stimulates cytokine release from these cells. Thus, antagonism of CRTH2 receptors is considered to be a promising therapeutic target for various allergic diseases and asthma.

### CAIndexNames:

5H-Pyrido[4,3-b]indole-5-acetic acid, 8-fluoro-1,2,3,4-tetrahydro-2-(1-naphthalenylcarbonyl)-

### SMILES:

O=C(O)CN1C2=C(CN(C(C3=C4C=CC=CC4=CC=C3)=O)CC2)C5=C1C=CC(F)=C5

**Caution: Product has not been fully validated for medical applications. For research use only.**

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