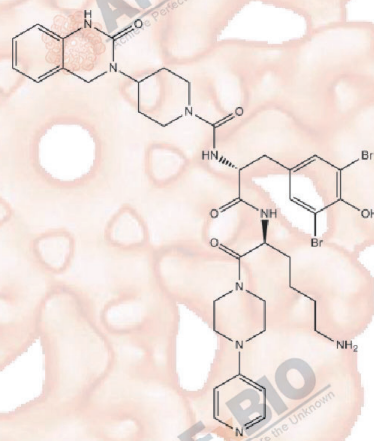


# Product Data Sheet

## Olcegepant

<b>Cat. No.:</b>	A3680
<b>CAS No.:</b>	204697-65-4
<b>Formula:</b>	C38H47Br2N9O5
<b>M.Wt:</b>	869.66
<b>Synonyms:</b>	BIBN-4096; BIBN-4096BS; BIBN4096BS; BIBN 4096BS
<b>Target:</b>	Neuroscience
<b>Pathway:</b>	CGRP
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥87 mg/mL in DMSO with gentle warming; insoluble in EtOH; insoluble in H2O

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.1499 mL	5.7494 mL	11.4987 mL
	5 mM	0.2300 mL	1.1499 mL	2.2997 mL
	10 mM	0.1150 mL	0.5749 mL	1.1499 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

Non-peptide receptor of CGRP, first potent and selective

IC<sub>50</sub> & Target

0.03 nM (CGRP1)

In Vitro

### Cell Viability Assay

Cell Line: SK-N-MC cells

Preparation method:

The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

	Reacting conditions:	10 mins
	Applications:	In SK-N-MC cells, CGRP-induced cAMP production was antagonised by both CGRP-(8-37) and Olcegepant with pA2 values of 7.8 and 11.2, respectively.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Rats
	Dosage form:	900 µg/kg; i.v.; 10 mins
	Applications:	Pre-treatment with Olcegepant (900 µg/kg) inhibited the capsaicin-induced expression of Fos (57%) throughout the spinal trigeminal nucleus, but did not change the expression of phosphorylated extracellular signal-regulated kinase in the trigeminal ganglion.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1]. Edvinsson L, Alm R, Shaw D, Rutledge RZ, Koblan KS, Longmore J, Kane SA. Effect of the CGRP receptor antagonist BIBN4096BS in human cerebral, coronary and omental arteries and in SK-N-MC cells. *Eur J Pharmacol.* 2002;434(1-2):49-53.
- [2]. Sixt ML, Messlinger K, Fischer MJ. Calcitonin gene-related peptide receptor antagonist olcegepant acts in the spinal trigeminal nucleus. *Brain.* 2009;132(Pt 11):3134-41.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

## APEX BIO Technology

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