

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



---

## DATASHEET

FCH-2996413 sodium (Peripherally restricted HCAD DREADD actuator) [Water Soluble]

---

### Product overview

<b>Name</b>	FCH-2996413 sodium (Peripherally restricted HCAD DREADD actuator) [Water Soluble]
<b>Cat No</b>	HB10013
<b>Biological action</b>	Activator
<b>Description</b>	Novel, selective activator of the peripherally restricted HCAD DREADD. Does not cross the BBB. Water soluble.

---

### Biological Data

<b>Biological description</b>	<p>Novel DREADD actuator for the first peripherally restricted DREADD system named the HCAD DREADD system. Water soluble. The HCAD system enables precise study of peripheral physiology without CNS interference.</p> <p>FCH-2996413 does not cross the BBB (unlike other DREADD ligands (e.g. <a href="#">CNO</a> &amp; <a href="#">DCZ</a>)), so can selectively activate the novel, peripherally restricted HCAD G<sub>i</sub>-DREADD. Few DREADD studies have been conducted in the PNS to date.</p> <p>FCH-2996413 has excellent drug-like properties, peripherally restricted pharmacokinetics and clean off-target profiles. The HCAD system also selectively reduces pain in mice by targeting peripheral tissues of DRG (dorsal root ganglion). Active in vivo. FCH-2996413 is a racemic mixture which includes the racemates AR2599088 ('088) and AR259089 ('089).</p>
-------------------------------	---

---

### Solubility & Handling

<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use
------------------	--

---

### References

#### Structure-guided design of a peripherally restricted chemogenetic system.

Kang HJ et al (2024) Cell 187

**PubMedID** [39631393/](#)

---