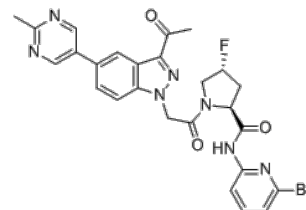


**Product Name** : Cotadutide acetate  
**Cat. No.** : PC-72602  
**CAS No.** : 1903768-17-1  
**Molecular Formula** : C<sub>169</sub>H<sub>256</sub>N<sub>42</sub>O<sub>57</sub>  
**Molecular Weight** : 3788.14  
**Target** : Glucagon Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Cotadutide acetate (MEDI-0382, MEDI0382) is a potent dual GLP-1/glucagon receptor peptide agonist with EC<sub>50</sub> values of 6.9 pM and 10.2 pM, respectively.

Cotadutide (MEDI-0382, MEDI0382) stimulates a concentration-dependent increase in cAMP accumulation in rat (INS-1 832/3) and human (EndoC-βH1) β-cell lines (EC<sub>50</sub>: 226 pM and 1051 pM, respectively), as well as rat, mouse and human hepatocytes (EC<sub>50</sub>: 462 pM, 840 pM, 1447 pM, respectively).

Cotadutide (MEDI-0382, MEDI0382) potentiates glucose-stimulated insulin secretion in the rat (INS-1 832/3) pancreatic β-cell line and increases glucose output in rat hepatocytes.

Cotadutide (MEDI-0382, MEDI0382) induces mitochondrial turnover and enhances mitochondrial function in mouse primary hepatocytes.

Cotadutide (MEDI-0382, MEDI0382) (10- 30 nmol/kg, s.c.) suppresses food intake and reduces body weight in DIO mice, reduces hepatic fibrosis and inflammation in in ob/ob AMLN NASH mice.

## References

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Ambery PD, et al. Br J Clin Pharmacol. 2018 Oct;84(10):2325-2335.

Ambery P, et al. Lancet. 2018 Jun 30;391(10140):2607-2618.

Boland ML, et al. Nat Metab. 2020 May;2(5):413-431.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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