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

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

customercare-usa@hellobio.com



DATASHEET

P4pal10

Product overview

 Name
 P4pal10

 Cat No
 HB8677

Biological description PAR₄ antagonist which shows no agonist activity (as measured by platelet aggregation, intracellular

 ${\rm Ca}^{2+}$ release or InsP production). Also inhibits ${\rm G}_{\rm ai}$ -coupled formylpeptide FPR2 receptor downstream signaling but does not inhibit downstream signaling of the ${\rm G}_{\rm aq}$ -coupled P2Y2 and PAF receptors. Additionally activates the FFAR2 short chain fatty acid receptor. Inhibits platelet aggregation and

shows cardioprotective effects by decreasing infarct size before ischemia.

Alternative names Pepducin
Biological action Antagonist
Purity >95%

Description PAR₄ antagonist. Inhibits platelet aggregation.

Solubility & Handling

Storage instructions -20°C

Solubility overview Soluble in DMSO

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Sequence (one letter) Pal-SGRRYGHALR-NH2

Sequence (three letter)

Modifications

Pal-Ser-Gly-Arg-Arg-Tyr-Gly-His-Ala-Leu-Arg-NH2
C terminal palmitoylation, N terminal amide

CAS Number 1021346-05-3 **PubChem identifier** 447463598

References

Pepducin-based intervention of thrombin-receptor signaling and systemic platelet activation.

Covic L et al (2002) Nature medicine 8 **PubMedID**12357249

Inhibiting protease-activated receptor 4 limits myocardial ischemia/reperfusion injury in rat hearts by unmasking adenosine signaling.

Strande JL et al (2008) The Journal of pharmacology and experimental therapeutics 324

PubMedID 18055876

The PAR4-derived pepducin P4Pal₁₀ lacks effect on neutrophil GPCRs that couple to Gαq for signaling but distinctly modulates function of the Gαi-coupled FPR2 and FFAR2.