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

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

customercare-usa@hellobio.com



DATASHEET

LUF7960

Product overview

 Name
 LUF7960

 Cat No
 HB8396

Biological description

Novel, adenosine A₃AR Affinity-Based Probe (AfBP) which is suitable for click conjugation for use in

confocal microscopy, SDS-PAGE and detection of endogenous hA_3AR in flow cytometry.

Binds covalently to the hA_3AR (apparent pK_i values at A_1AR are 7.27 and 8.4 (following a 4h

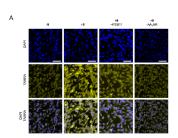
preincubation)

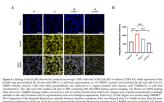
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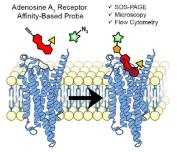
Biological action Purity Description Agonist >98%

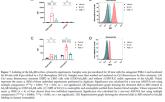
Novel, clickable Adenosine hA₃AR Affinity-Based Probe (AfBP).

Images









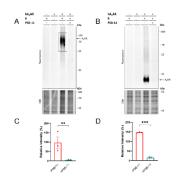


Figure S. Labeling of the hA₃AR on live CHO cells. (A) Colls with revithout (first lane) stable expression of the hA₃AR were preincubated for 1 h with antagonist (PSB-11, 1 μ M final concentration) at 37 °C, prior to incubation with 9 (50 nM final concentration) for 1 at 37 °C. After the incubation, the unbound probe was washed away with PBS. Membranes were prepared, brought to a concentration of 1 mg/µL, and subjected to the copper-catalyzed click reaction with CyS-N₃ (1 μ M final concentration). Samples were then denatured with Learnmil buffer (4×), resolved by SDS-PAGE, and imaged using ingel fluorescence. Gels were stained by Coomassie Brilliant Blue (CBB) as loading control. (A) Labeling of glycosylated hA₃AR. (B) Labeling of deglycosylated hA₃AR. (B) Labeling of degree and degree degree degles degree deg

Solubility & Handling

Storage instructions Storage of solutions -20°C

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.

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

Shipping Conditions 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

Chemical name 4-[3-(2,4-Dioxo-3-propyl-8-prop-2-ynoxypurino[7,8-a]pyridin-1-yl)propylcarbamoyl]benzenesulfonyl

fluoride 541.55

Molecular Weight Chemical structure

 $\mathsf{C}_{25}\mathsf{H}_{24}\mathsf{FN}_5\mathsf{O}_6\mathsf{S}$

Molecular Formula **PubChem identifier**

168510594 **SMILES**

InChiKey GQJPGXUBGVKCMG-UHFFFAOYSA-N

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References

Development of an Affinity-Based Probe to Profile Endogenous Human Adenosine A(3) Receptor Expression.

Beerkens BLH et al (2023) Journal of medicinal chemistry 66

PubMedID 37531576