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DATASHEET

CA200623 CellAura fluorescent adenosine agonist [NECA]

Product overview

Name CA200623 CellAura fluorescent adenosine agonist [NECA]

Cat No HB7813

Biological description Fluorescent adenosine receptor agonist (pEC₅₀ values are 8.57, 8.47, 6.76 and 5.69 for A₃, A₁, A_{2A} and

 A_{2B} respectively). Also inhibits forskolin-stimulated cAMP accumulation (pIC₅₀ = 8.57) and [3H]-inositol phosphate accumulation (pEC₅₀ = 7.34). A fluorescent adenosine receptor ligand derived from NECA,

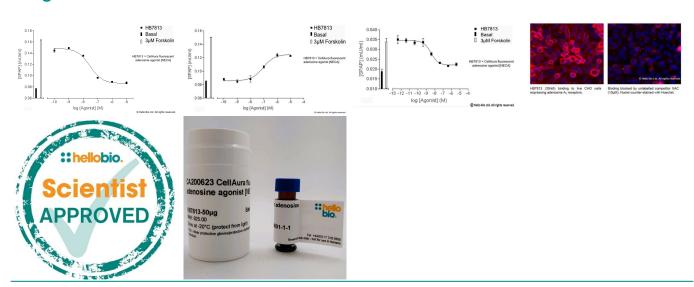
non-selective adenosine agonist.

Alternative names Fluorescent Adenosine receptor Agonist (A-633-AG), A-633-AG, ABEA-X-BY630

Biological action Agonist Purity >97%

Description Fluorescent adenosine receptor agonist

Images



Biological Data

Application notes For ligand binding; fluorescence imaging; high content analysis; kinetic analysis; cell sorting at

adenosine $A_1 / A_{2A} / A_3$ receptors use solutions up to 100 nM.

Pharmacological validation For full experimental data see: J. Med. Chem. 2007, 50, 782-793; FASEB J. 2008, 22, 850-860

Solubility & Handling

Storage instructions -20 °C (protect from light)
Solubility overview Soluble in DMSO

Handling After thawing individual aliquots for use, we recommend briefly sonicating the sample to ensure it is

fully dissolved and the solution is homogeneous. We do not recommend using the product after

subjecting it to repetitive freeze-thaw cycles.

Shipping conditionsThe product, supplied in a dry form, is stable at ambient temperature for periods of up to a few days

and does not require shipping on ice/dry ice.

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

Chemical Data

Molecular Weight925SourceSyntheticAppearancePurple solidFormulationLyophilized filmExcitation638 nmEmission657 nm

References

Probe dependence of allosteric enhancers on the binding affinity of adenosine A1 -receptor agonists at rat and human A1 -receptors measured using NanoBRET.

Cooper SL et al (2019) Br J Pharmacol. doi: 10.1111/bph.14575. [Epub ah

PubMedID 30644086