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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 (pEC<sub>50</sub> values are 8.57, 8.47, 6.76 and 5.69 for  $A_3$ ,  $A_1$ ,  $A_{2A}$  and

 $A_{2B}$  respectively). Also inhibits forskolin-stimulated cAMP accumulation (pIC<sub>50</sub> = 8.57) and [3H]-inositol phosphate accumulation (pEC<sub>50</sub> = 7.34). A fluorescent adenosine receptor ligand derived from NECA,

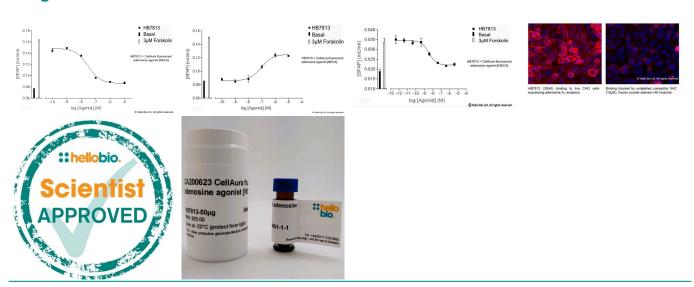
non-selective adenosine agonist.

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

**Biological action** Agonist >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<sub>1</sub> / A<sub>2A</sub> / A<sub>3</sub> 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**

Handling

Storage instructions -20 °C (protect from light)
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.

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

## **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