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# DATASHEET

LUF7960

## Product overview

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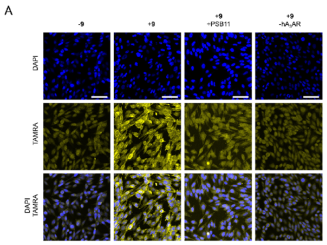
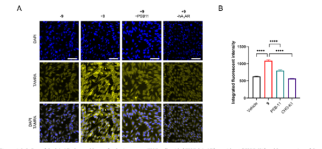
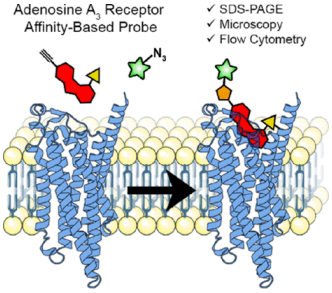
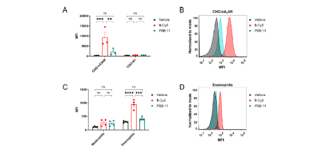
| **Name** | LUF7960 |
| **Cat No** | HB8396 |
| **Biological description** | Novel, adenosine $A_3$AR Affinity-Based Probe (AfBP) which is suitable for click conjugation for use in confocal microscopy, SDS-PAGE and detection of endogenous h$A_3$AR in flow cytometry.<br><br>Binds covalently to the h$A_3$AR (apparent p$K_i$ values at $A_1$AR are 7.27 and 8.4 (following a 4h preincubation)<br><br>*Sold under license from the Oncode Institute and Universiteit Leiden* |
| **Biological action** | Agonist |
| **Purity** | >98% |
| **Description** | Novel, clickable Adenosine h$A_3$AR Affinity-Based Probe (AfBP). |

## Images





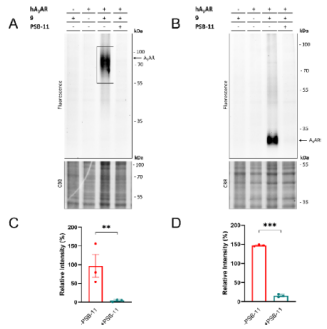



Figure 5. Labeling of the h$A_3$AR on live CHO cells. CHO cells with or without (first lane) stable expression of the h$A_3$AR were pre-incubated for 1 h with antagonist (PSB-11, 1 $\mu$M final concentration) at 37 °C, prior to incubation with 9 (50 nM final concentration) for 1 h at 37 °C. After the incubation, the unbound probe was washed away with PBS. Membranes were prepared, brought to a concentration of 1 $ug/\mu$L, and subjected to the copper-catalyzed click reaction with Cy5-$N_3$ (1 $\mu$M final concentration). Samples were then denatured with Laemmli buffer (4×), resolved by SDS-PAGE, and imaged using in-gel fluorescence. Gels were stained by Coomassie Brilliant Blue (CBB) as loading control. (A) Labeling of glycosylated h$A_3$AR. (B) Labeling of deglycosylated h$A_3$AR. PNGase was added prior to the addition of click reagents. (C, D) Quantification of the observed signals with and without addition of antagonist (PSB-11). The band intensities were calculated using ImageLab and corrected for the amount of protein measured after CBB staining. The band at 55 kDa of the PageRuler Plus ladder (not shown) was set to 100% for each gel and band intensities were calculated relative to this band. The mean values ± SEM of three individual experiments are shown. Significance was calculated by a two-way ANOVA test using multiple comparisons ($***p < 0.001$; $**p < 0.01$).

## Solubility & Handling

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| **Storage instructions** | -20°C |
| **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

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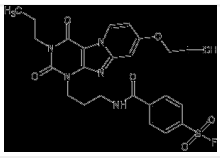
| **Chemical name** | 4-[3-(2,4-Dioxo-3-propyl-8-prop-2-ynoxypurino[7,8-a]pyridin-1-yl)propylcarbamoyl]benzenesulfonyl fluoride |
| **Molecular Weight** | 541.55 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{25}H_{24}FN_5O_6S$ |
| **PubChem identifier** | 168510594 |
| **SMILES** | CCCN1C(=O)C2=C(N=C3N2C=CC(=C3)OCC#C)N(C1=O)CCCNC(=O)C4=CC=C(C=C4)S(=O)(=O)F |
| **InChiKey** | GQJPGXUBGVKCMG-UHFFFAOYSA-N |
| **Licensing details** | Sold under license from the Oncode Cancer Institute and Universiteit Leiden |

## 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