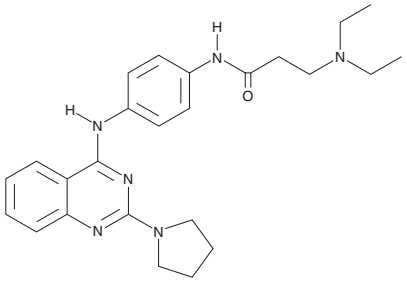
PRODUCT INFORMATION

CA11

Item No. 45555

CAS Registry No.: 3094716-52-3
Formal Name: 3-(diethylamino)-N-[4-[[2-(1-pyrrolidinyl)-4-quinazolinyl]amino]phenyl]-propanamide
MF: $C_{25}H_{32}N_6O$
FW: 432.6
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CA11 is supplied as a solid. A stock solution may be made by dissolving the CA11 in the solvent of choice, which should be purged with an inert gas. CA11 is slightly soluble (0.1-1 mg/ml) in ethanol and soluble (≥10 mg/ml) in DMSO.

Description

CA11 is a telomeric guanine-quadruplex (G-quadruplex) ligand.[1] It binds to G-quadruplexes (K_d = 5.8 µM), increases the melting temperature of dimeric telomeric G-quadruplexes by 12.1°C at 10 µM, and inhibits Bloom syndrome protein (BLM) and G4 resolvase 1 (G4R1), also known as DEAH-box helicase 36 (DHX36), binding to telomeric G-quadruplex DNA. CA11 inhibits the proliferation of HCT116 colon cancer cells (IC_{50} = 0.4 µM). It increases the levels of Z-DNA-binding protein 1 (ZBP1), telomeric repeat-containing RNA (TERRA), cyclic GMP-AMP (cGAMP) synthase (cGAS), STING, and LC3B, indicating induction of telomere crisis and autophagy. CA11 (20 and 40 mg/kg) decreases tumor volume and weight and increases intratumoral T cell and M1-polarized macrophage infiltration in an MC-38 murine colon carcinoma model.

Reference

1. Cai, J.-H., Shi, Y.-H., Yang, D.-Y., *et al.* An orally available telomeric G quadruplex ligand induces telomere crisis and dual DNA/RNA-sensing innate immunity for cancer therapy. *J. Med. Chem.* **69(6)**, 6885-6901 (2026).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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