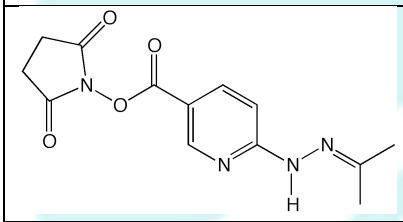
DATA SHEET

Succinimidyl 6-hydrazinonicotinate acetone hydrazone (SANH; S-HyNic)

Product Description: Succinimidyl 6-hydrazinonicotinate acetone hydrazone (SANH) is a heterobifunctional linker used for introducing protected hydrazinonicotinimide functional groups into proteins, peptides, surfaces and other primary amine containing molecules via its reactive N-hydroxysuccinimide ester terminus. Upon deprotection of the hydrazone functionality under acidic or neutral pH (4.5-7.4), the liberated hydrazine group can then react with aldehydes and ketones to form stable bonds. SANH has also been used extensively for the labeling of biomolecules with the SPECT imaging isotope, ^{99m}Tc [1-4].

Structure	Properties	Specifications
	Molecular Formula: $C_{13}H_{14}N_4O_4$ MW: 290.2 CAS # [362522-50-7] Solubility: >50mg/mL in DMF	Appearance: White solid Purity: >90% by ^{1}H NMR

Catalog #	Product Name	Size	Price (USD)
CL-1001-10	SANH	10mg	150.00
CL-1001-25	SANH	25mg	275.00

References:

[1] He J, Wang Y, Duo S et al. (2010). Affinity enhancement pretargeting: synthesis and testing of a ^{99m}Tc-labeled bivalent MORF. *Mol. Pharm*. **7** (4), 1118-1124.

[2] Zhao M, Li Z, Bugenhagen S (2008). ^{99m}Tc-Labeled duramycin as a novel phospatidylethanolamine-binding molecular probe. *J. Nucl. Med*. **49**: 1345-1352

[3] Luo QY, Wang F, Zhang ZY et al. (2008). Preparation and bioevaluation of ^{99m}Tc-HYNIC-annexin B1 as a novel radiolaigand for apoptosis imaging. *Apoptosis*, **13** (4): 600-608.

[4] Schwartz DA, Abrams MJ, Hauser MM et al. (1991). Preparation of hydrazino-modified proteins and their use for the synthesis of ^{99m}Tc-protein conjugates. *Bioconjugate Chem*. **2**, 333-336.

Storage and Handling: Upon receipt, store dessicated at or below room temperature.

For research use only; not for internal or external use in humans.

For further information or to place an order please contact Dr. Brian Gray by email: briangray@mtarget.com or phone: 610-738-7938

M · T · T · I

MOLECULAR TARGETING TECHNOLOGIES, INC.

833 Lincoln Ave., Unit 9
West Chester, PA 19380
P: 610.738.7938 F: 610.738.7928
Contact us: info@mtarget.com; web address: www.mtarget.com

Version 1: 9-9-13