

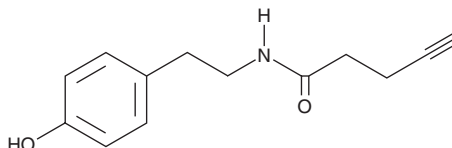
PRODUCT INFORMATION



Alkyne-phenol

Item No. 44843

CAS Registry No.: 1694495-59-4
Formal Name: N-[2-(4-hydroxyphenyl)ethyl]-4-pentynamide
MF: $C_{13}H_{15}NO_2$
FW: 217.3
Purity: $\geq 98\%$
Supplied as: A solid
Storage: $-20^{\circ}C$
Stability: ≥ 4 years



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

Laboratory Procedures

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

Description

Alkyne-phenol is a probe for APEX2 proximity labeling.¹ In proximity labeling assays, alkyne-phenol is acted on by APEX2, an engineered peroxidase that catalyzes the generation of a free radical on the phenolic oxygen, forming a compound that reacts with molecules within a 10-20 nm radius. The alkyne moiety of this compound can be conjugated to azide-tagged fluorophores to label the proximity target. Alkyne-phenol has been used for proximity labeling of RNA in bacteria.

Reference

1. Yassine, H., Sirotkin, E., Goldberger, O., et al. APEX2 proximity labeling of RNA in bacteria. *Cell Rep. Methods* **5(11)**, 101206 (2025).

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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