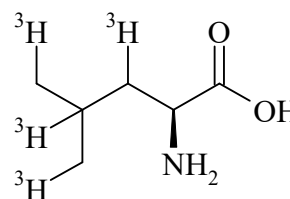Research Use Only. Not for use in diagnostic procedures.

LEUCINE, L-[3,4,5-^{3}H(N)]-

Product Number: NET460

LOT SPECIFIC INFORMATION

Lot Number: <u>3154675</u>

Specific Activity: <u>72.6</u> Ci/mmol

<u>2686</u> GBq/mmol

Production Date: <u>8 MAY 2023</u>

M.W. 131
$C_6H_{13}NO_2$

PACKAGING: 1.0 mCi/ml (37 MBq/ml) in ethanol:water (2:98), steri-packaged.

STABILITY AND STORAGE RECOMMENDATIONS: When leucine, L-[3,4,5-^{3}H(N)]- is stored at 5°C in its original solvent and at its original concentration, the rate of decomposition is initially 3% for 2 months from date of purification. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.

SPECIFIC ACTIVITY RANGE: 100-150 Ci/mmol (3700–5550 GBq/mmol)

RADIOCHEMICAL PURITY: This product was initially found to be greater than 97% when determined by one or more of the following methods. The rate of decomposition can accelerate. It is advisable to check purity prior to use:

 High pressure liquid chromatography on a Zorbax SCX column using the following mobile phase:
       potassium phosphate, pH 3.
Thin layer chromatography on cellulose using the following solvent system:
       n-butanol : acetic acid : water, (25:4:10).

OPTICAL PURITY: Greater than 97% L-isomer determined by high pressure chiral chromatography.

QUALITY CONTROL: The radiochemical purity of leucine, L-[3,4,5-^{3}H]- is checked at appropriate intervals using the first listed chromatography method.

TRITIUM NMR: The position of label and relative distribution have been investigated by NMR.

HAZARD INFORMATION: <u>WARNING</u>: This product contains a chemical known to the state of California to cause cancer.