

## Iodine for protein labeling

Iodine-125 and Iodine-131 are typically used for labeling peptides and proteins. See [125I Labeling of proteins](#) for applications information. For help in choosing between <sup>125</sup>I and <sup>131</sup>I, see [Choosing an iodination technique](#).

Product	When to use this formulation	Radioactive Concentration/Specific Activity	Buffer	Storage and stability
<b>NEZ033 Iodine-125</b> (carrier-free)	High pH formulation minimizes volatility. Adjust pH as needed with HCl or acetic acid. Packaged in 0.1 mL volume regardless of amount of radioactivity ordered. (Radioactive concentration varies depending on amount ordered.)	Radioactive concentration depends on size ordered, ~17 Ci/mg	0.1M NaOH, pH 12-14	Shipped ambient. Store at room temperature.
<b>NEZ033A Iodine-125</b> (carrier-free)	Lower pH is more convenient, requiring less adjustment.	100 mCi/mL, ~17 Ci/mg	1X10 <sup>-5</sup> M NaOH, pH 8-11	Shipped ambient. Store at room temperature.
<b>NEZ033H Iodine-125</b> (carrier-free)	High pH formulation minimizes volatility. Adjust pH as needed with HCl or acetic acid. Recommended for Iodogen labeling.	350 mCi/mL, ~17 Ci/mg	0.1M NaOH, pH 12-14	Shipped ambient. Store at room temperature.
<b>NEZ033L Iodine-125</b> (carrier-free)	Lower pH is more convenient, requiring less adjustment.	350 mCi/mL, ~17 Ci/mg	1X10 <sup>-5</sup> M NaOH, pH 8-11	Shipped ambient. Store at room temperature.
<b>NEZ035A Iodine-131</b>	High pH formulation minimizes volatility. Adjust pH as needed with HCl or acetic acid. Flat-bottom vial that can hold up to 5 mL reaction volume if reaction performed in vial.	>5 Ci/mg	0.1 N NaOH, pH 12-14	Shipped ambient. Store at room temperature.
<b>NEZ035H Iodine-131</b>	High pH formulation minimizes volatility. Adjust pH as needed with HCl or acetic acid. Round-bottom vial that can hold up to 0.8 mL reaction volume if reaction performed in vial.	>500 mCi/mL, >5 Ci/mg	0.1 N NaOH, pH 12-14	Shipped ambient. Store at room temperature.
<b>NEX120 Bolton-Hunter Reagent</b> <sup>125</sup> I mono-iodinated	The mono-iodinated form is generally recommended for most Bolton-Hunter iodinations.	2200 Ci/mmol	Packaged in anhydrous benzene. A charcoal trap is included with each vial.	Shipped ambient. Store at room temperature
<b>NEX120H Bolton-Hunter Reagent</b> <sup>125</sup> I di-iodinated	Double the specific activity (or 4400 Ci/mmol) for each molecule of reagent. Use when the extra sensitivity is important relative to decrease in stability.	4400 Ci/mmol	Packaged in anhydrous benzene. A charcoal trap is included with each vial.	Shipped ambient. Store at room temperature