

AFFINIMIP® SPE CARTRIDGES

Description & Applications	Product Information
AFFINIMIP® SPE ¹⁸F - Nucleophilic Fluorination	
<p>Selective extraction solid phase used to retain specific tag-based compounds to purify rapidly and perfectly a ¹⁸F radiotracer with no need of a preparative HPLC.</p> <ul style="list-style-type: none"> A label can be bound to any precursors submitted to nucleophilic radiofluorination. 	<p>Format : Cartridge compatible with automates</p> <p>Particle diameter range : 25-80 μm</p> <p>Stability : 3 years</p> <p>Shipping & Storage : Ambient temperature</p>
<p>Chemical Reaction:</p> $\text{R-OH} + \text{ClO}_2\text{S-R} \longrightarrow \text{R-SO}_3\text{R}$ <p style="text-align: center;"><i>Labeled sulfonyl chloride</i> → <i>Labeled precursor</i></p> <p><i>Ideal when precursor and radiotracer are difficult to separate</i></p>	
<p>The corresponding ¹⁸F radiotracer obtained from the fluorination of this derivatized precursor is purified on AFFINIMIP® SPE ¹⁸F - Nucleophilic Fluorination cartridges which have strong interactions for labeled compounds.</p> <p>Fluorination:</p> $\text{R-SO}_3\text{R} \xrightarrow[\text{ACN or DMSO}]{\text{F, Kryptofix 2.2.2}}$ <p style="text-align: center;"><i>Labeled precursor</i> → AFFINIMIP® SPE ¹⁸F -NF → <i>Pure Radiotracer</i></p>	
<ul style="list-style-type: none"> Rapid and simple method purification: The precursor is retained on the SPE cartridge thanks to the labeled moiety, while the fluorine radiotracer is eluted Validated for the fluorine proline (Radiotracer) Improved radiotracer purity: No trace of the labeled precursor/labeled sulfonic acid and low traces of Kryptofix Increased reliability of radiotracer production: Reduction of manual handling steps 	

AFFINIMIP® SPE ¹⁸F- Nucleophilic Fluorination - Product List

Product	Description	Reference	Nb of cartridges
Reversible cartridges	KIT of 10 SPE cartridges compatible with automates for purification of radiotracers issued from Nucleophilic Fluorination	RP101-01	10
Reversible cartridges	KIT of 25 SPE cartridges compatible with automates for purification of radiotracers issued from Nucleophilic Fluorination	RP101-02	25
Labeling agent	10 mg of labeling agent	RP101-REA1-10mg	
Labeling agent	100 mg of labeling agent	RP101-REA1-100mg	
Labeling agent	1000 mg of labeling agent	RP101-REA1-1000mg	
Reversible cartridges	KIT of 10 SPE cartridges compatible with automates for purification of radiotracers issued from Nucleophilic Fluorination + 10mg labeling agent	RP101-01K	10
Reversible cartridges	KIT of 25 SPE cartridges compatible with automates for purification of radiotracers issued from Nucleophilic Fluorination + 25mg labeling agent	RP101-02K	25
PROLINE Precursor	10mg of PROLINE Precursor	RP101-REA2-10mg	

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Ordering information: References and formats on the product list p16