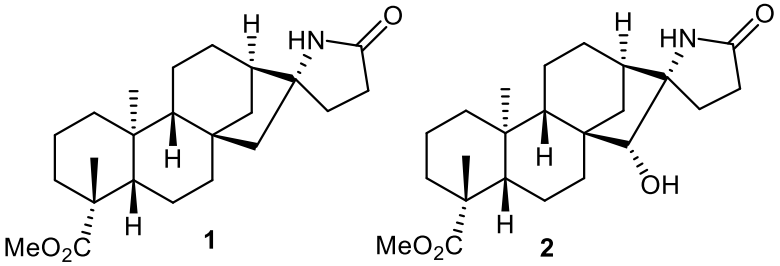
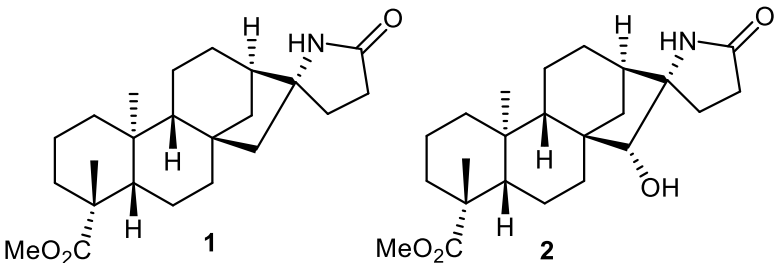


Denumirea produsului	Spiro γ-lactame, derivate ale acidului <i>ent</i>-kaurenoic natural cu activitate citotoxică selectivă
Product name	Spiro γ-lactams derivatives of natural <i>ent</i>-kaurenoic acid with selective cytotoxic activity
Descrierea produsului	Metil (4'R,4a'S,6a'S,9'R,11a'R,11b'S)-4',11b'-dimetil-5-oxododecahidro-7'H-spiro[pirolidin-2,8'-[6a,9]metanociclohepta[a]naftalen]-4'-carboxilat și metil (4'R,4a'S,6a'R,7'R,9'R,11a'S,11b'S)-7'-hidroxi-4',11b'-dimetil-5-oxododecahidro-7'H-spiro[pirolidin-2,8'-[6a,9]metanociclohepta[a]naftalen]-4'-carboxilat. Methyl (4'R,4a'S,6a'S,9'R,11a'R,11b'S)-4',11b'-dimethyl-5-oxododecahydro-7'H-spiro[pyrrolidine-2,8'-6a,9]methanocyclohepta[a]naphthalene]-4'-carboxylate and methyl (4'R,4a'S,6a'R,7'R,9'R,11a'S,11b'S)-7'-hydroxy-4',11b'-dimethyl-5-oxododecahydro-7'H-spiro[pyrrolidine-2,8'-[6a,9]methanocyclohepta[a]naphthalene]-4'-carboxylate.
Product description	
Domeniul/domeniile de aplicare The field/fields of application	Medicină și farmacie Medicine and pharmacy
Avantajele produsului Product advantages	<ul style="list-style-type: none"> • Materie primă disponibilă în cantități nelimitate din reziduurile de floarea soarelui. • Activitatea citotoxică revendicată se demonstrează prin inhibarea selectivă a proliferării celulelor tumorale Capan-1 (pancreatic adenocarcinoma), Hap-1 (chronic myeloid leukemia), HCT-116 (colorectal carcinoma), NCI-H460 (pulmonary carcinoma), DND-41 (acute lymphoblastic leukemia). • Toxicitatea redusă a compusilor față de celulele normale. <ul style="list-style-type: none"> • Raw material available in unlimited quantities from sunflower residues. • The claimed cytotoxic activity is demonstrated by the selective inhibition of tumor cells Capan-1 (pancreatic adenocarcinoma), Hap-1 (chronic myeloid leukemia), HCT-116 (colorectal carcinoma), NCI-H460 (pulmonary carcinoma), DND-41 (acute lymphoblastic leukemia) proliferation. • Reduced toxicity of the compounds to normal cells.
Cum poate fi aplicat	Preparat farmaceutic
How it can be applied	Pharmaceutical preparation
Stadiul actual de dezvoltare Current stage of development	Demonstrarea de principiu a proprietăților Proof of principle
Numărul brevetului/cererii de brevet (după caz)	MD4786 (13) B1

Patent/patent application number (if applicable)	
Secția/ laboratorul care deține produsul	Laboratorul Chimia Compușilor Naturali și Biologic Activi al Institutului de Chimie al USM Katholieke Universiteit Leuven (Belgium) Universität Bern (Switzerland)
The department/ laboratory that owns the product	Laboratory of Chemistry of Natural and Biologically Active of the Institute of Chemistry of MSU Katholieke Universiteit Leuven (Belgium) Universität Bern (Switzerland)
Autorii produsului Authors	Kulcički Veaceslav; Gîrbu Vladilena; Pruteanu Elena; Renaud Philippe; Daelemans Dirk; Ungur Nicon
Specificația produsului/componența Product specification/composition	<p>Produsul conține: Spiro γ-lactame, derivate ale acidului <i>ent</i>-kaurenoic reprezentate de formulele 1 și 2:</p> <div style="text-align: center;">  <p>MeO₂C 1 MeO₂C 2</p> </div> <p>The product contains: Spiro γ-lactam derivatives of <i>ent</i>-kaurenoic acid having formula 1 and 2:</p> <div style="text-align: center;">  <p>MeO₂C 1 MeO₂C 2</p> </div>